

SHRDC TRAINING PROGRAMS 2024

MALAYSIAN SMART FACTORY 4.0 |
ENVIRONMENTAL, SOCIAL, AND
GOVERNANCE

SUSTAINABLE ENERGY |
SOLAR PV

WORKFORCE DEVELOPMENT
PROGRAM

MANUFACTURING |
ENGINEERING TECHNOLOGY |
FACTORY ESSENTIALS

INFORMATION & COMMUNICATION
TECHNOLOGY (ICT)

AVIATION

MICROSYSTEMS

ESSENTIAL SKILLS

**LEADING TRANSFORMATION
THROUGH TRAINING SINCE 1992**

ABOUT US

PROFESSIONAL TALENT DEVELOPMENT AND TRAINING CENTRE

Selangor Human Resource Development Centre is an ISO certified, not-for-profit and award-winning talent and skills development centre established through a tri-patriate partnership between the Government and industry on the 14th February 1992.

The formation was a collaborative effort of the

- Selangor State Government
- Federal Government
- Founder Members:
 - Matsushita Group of Companies (now known as Panasonic),
 - MEMC Electronic Materials Sdn Bhd,
 - Motorola Malaysia Sdn Bhd,
 - NEC Semiconductors Malaysia Sdn Bhd (now known as Renesas Semiconductor KL Sdn Bhd)
 - Denso Malaysia Sdn Bhd,
 - Texas Instruments Malaysia Sdn Bhd,
 - Western Digital Malaysia Sdn Bhd,
 - Yayasan Basmi Kemiskinan,

The establishment remain its core purpose of appropriately skilling Malaysians to be a sustainable pool of highly skilled, innovative, and flexible workers for Malaysia's successful transition into a digital economy for companies and businesses by providing relevant industry training. Carving out the roadmap of fulfilling the short supply of talent and closing the skills gap for new and existing talents. Over three decades, SHRDC has helped 100,000 workers in Malaysia and overseas.

At SHRDC, we are offering various programs including training and certification programs in which our competency-based training programs ensure job readiness that are recognized by the industry. Some of the programs and courses we have are competencies in :

- The Malaysian Smart Factory 4.0
- Environmental, Social, and Governance
- Sustainable Energy
- Solar PV
- Workforce Development Program
- Manufacturing Technology, Engineering Technology & Factory Essentials
- Information Communication & Technology
- Microsystems
- Aviation
- Essential Skills

SHRDC is also a technology centre assisting companies, especially SME journey into IR4.0 digitalisation and automation. In addition, the Centre of Excellence of Sustainable Energy is a one-stop Solar PV and renewable energy resource centre.



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MALAYSIAN SMART FACTORY 4.0 | ENVIRONMENTAL, SOCIAL, AND GOVERNANCE COURSES

No	Training Programs 2024	Days	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
MALAYSIAN SMART FACTORY (MSF) 4.0														
1	Smart Factory Technical Overview: Enabling Technologies for Industry	2	•		•		•		•		•		•	
IOT - Data Automation & Visualization														
2	Data Generation	5	•			•			•				•	
3	Machine Data Logging and Visualization for Smart Factory	5		•			•			•				•
4	Data Formulation Overall Equipment Effectiveness (OEE)	5			•			•			•			•
Data Analytics & Deep Learning														
5	Data Analytics Essentials	5		•			•			•				•
6	Deep Learning Essentials	5			•						•			
7	Data Intelligence Essentials	5					•							•
Lean Digital Factory Industry 4.0														
8	Lean Manufacturing	4			•						•			
9	Digital Process Optimization for Lean Industry 4.0	5		•						•				
10	Digital Factory Essentials for Lean Industry 4.0	5			•				•					•
11	Digital Factory Essentials for Lean Industry 4.0 - Intermediate	5				•				•				•
12	Digital Workflow Management Essentials for Industry 4.0	5	•			•			•				•	
Artificial Intelligence (AI) & Robotics														
13	Deep Learning with Computer Vision for Smart Factory	5		•			•			•				•
14	Generative AI: Prompt Engineering Essentials for Industry 4.0	5	•			•			•				•	
15	Collaborative Robotics (COBOT) Essentials for Industry 4.0	5		•				•					•	
SUSTAINABLE MANUFACTURING ENVIRONMENTAL, SOCIAL AND GOVERNANCE														
16	Sustainable Manufacturing ESG - Awareness	1	•				•				•			
17	Sustainable Manufacturing Maturity Tools and Framework for ESG	2		•		•		•		•			•	•
18	Sustainable Manufacturing Maturity Mapping and Prioritization for ESG	3	In House only (please contact for further details)											

Other courses upon request or customization:

- IOT Gateway
- Cyber Physical Systems (CPS) Based Automation
- Cyber Physical Systems (CPS) Based Communication
- Robotics Process Automation (RPA)
- Cybersecurity Essentials
- IO-Link Technology
- PLC Essentials for Smart Factor - (Fundamental - Intermediate - Advance)

SHRDC MALAYSIAN SMART FACTORY 4.0

THE MSF4.0 AGENDA

DEEP-DIVE TECHNOLOGY, TALENT AND TRAINING SOLUTIONS FOR IR4.0

1. IR4.0 TECHNOLOGY TRAINING AND DEVELOPMENT
2. TECHNOLOGY LEARNING PLATFORM
3. IPROOF OF CONCEPT LIGHTHOUSE PROJECTS
4. LIVE DEMONSTRATION OF TECHNOLOGIES
5. DIGITAL TRAINING PLATFORM
6. COMMUNITY-DRIVEN TECHNOLOGY INNOVATION AND DEVELOPMENT

Sustainable Strategies towards Developing a Smart Factory – A Kaizen Approach



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SUSTAINABLE ENERGY COURSES

No	Training Programs 2024	Days	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
SOLAR PV														
1	SEDA Malaysia Grid-Connected Photovoltaic (PV) Systems Design Course	8	•	•		•	•	•		•		•		•
2	SEDA Malaysia Off-Grid Photovoltaic (OGPV) Systems Design Course	8	•	•			•	•	•	•	•	•	•	•
3	SEDA Malaysia Grid-Connected Photovoltaic (PV) Systems Installation & Maintenance Course	40						•					•	
4	Introduction to Solar PV System Software (PVSYST) - Beginner Level	2				•	•		•		•		•	
5	Solar PV System Software (PVSYST) - Intermediate Level	2								•				•
6	Battery Energy Storage Systems (BESS) Integration in GCPV Systems	1	•			•			•			•		
7	Maintenance and Fault-Finding Methods of Photovoltaic (PV) Systems Using Diagnostic Equipment	2				•				•				•
8	IEC 61727 - Power Quality Testing on Grid-Connected Photovoltaic (PV) System	1	•		•				•		•			
9	Solar Irradiance Monitoring and Database Analysis	1					•				•			
10	PV System Quality and Safety	2						•				•		•
11	PV Performance Monitoring and Assessment	2						•					•	
12	Solar PV System Performance and Quality Test	2								•				
13	Introduction to Solar PV Technology	1	•	•			•	•	•	•	•	•	•	•
14	Solar PV Power Generation for Newcomers	1						•					•	


**CENTRE OF EXCELLENCE
FOR SUSTAINABLE ENERGY**
by SHRDC

SUSTAINABLE ENERGY

**Energising the Nation, Powering Our Future:
Human Capital & Capabilities**

Talent and Training Solutions in:

- Energy Efficiency
- Renewable Energy
- Bioenergy
- Green Mobility
- Carbon Capture, Utilization and Storage




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ESSENTIAL SKILLS COURSES

No	Training Programs 2024	Days	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
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ESSENTIAL SKILLS														
1	Edward De Bono's Six Thinking Hats	2			•								•	
2	Leading Positive Results in the Workplace (Orange Frog)	2	•										•	
3	Think On Your Feet	2						•						
4	8D Data Driven Problem Solving Skills	2				•		•					•	
5	Emerging Leadership	2				•			•					
6	To Coach, To Mentor, or both	2		•						•				
7	Efficient Time & Multitasking Management Skills	2												
8	Finance for Non-Finance	2						•						•
9	Negotiation Skills	2		•				•						•
10	The Hero in Me (Positivity and Resiliency)	2						•				•		
PERSONAL DEVELOPMENT SKILLS														
11	Interview Skills	1		•									•	
12	English (Communication/Written/Spoken)	2					•	•		•			•	
13	Impactful Presentation	2					•						•	
14	Creating Interactive & Engaging Learning	3							•				•	
15	Technical Report Writing	2										•		
16	Mindset Transformation	2						•				•		
PROTÉGÉ MODULES														
17	Communication	1	•	•	•	•	•	•	•	•	•	•	•	•
18	Creative and Analytical Thinking	1	•	•	•	•	•	•	•	•	•	•	•	•
19	Organizational Adaptability	1	•	•	•	•	•	•	•	•	•	•	•	•
20	Value Driven Professional	1	•	•	•	•	•	•	•	•	•	•	•	•
21	Grooming & Etiquette	1	•	•	•	•	•	•	•	•	•	•	•	•
22	Entrepreneurship 101	1	•	•	•	•	•	•	•	•	•	•	•	•
23	Environment Sustainability & Social Impact	1	•	•	•	•	•	•	•	•	•	•	•	•

SMASH IT

SHRDC SURE

2 Learning Activities is all you need to "SURE" your workforce

SURE- Strategic Upskilling to Retain Employees

SHRDC SMASH IT & SHRDC SURE CAN-DO

Both activities will bring out many competencies including ownership, accountability, teamwork, resilience, communication, and leadership

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MANUFACTURING ESSENTIALS COURSES

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			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
MANUFACTURING ELECTRIC & ELECTRONICS														
1	7QC Tools	2		•					•					
2	2D / 3D Auto CAD	3						•						•
3	Lean Manufacturing System	4				•						•		•
4	Basic Hydraulic	3					•			•				
5	Electrical Motor Control	4		•		•		•		•		•		•
6	Basic Welding Technology	4			•		•		•		•		•	
7	Six Sigma	2					•				•			
8	5S	2				•				•				
9	Poka Yoke	2						•			•			
10	Basic Soldering	3				•								
11	Industrial Pneumatics and PLC Integration	5		•						•				
12	Technical Report Writing	2							•					•

Other courses upon request or customization:

- Basic Electrical Motor Control
- Basic Electrical Skills
- Basic Pump System
- Effective Supervisory Skills
- Engineer Work Process
- Failure Mode Effect Analysis (FMEA)
- Just-In-Time (JIT)
- Mechanical Drive System
- Most Work Measurement
- Production Planning & Control
- Statistical Process Control (SPC)
- TS16949 IQA

MICROSYSTEMS COURSES

No	Training Programs 2024	Days	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
MICROSYSTEMS														
1	IPC Certified Interconnect Designer (IPC CID)	5		•			•			•				•
2	IPC Advanced Certified Interconnect Designer, CID+	5				•						•		
3	Introduction to Requirement and Quality Conformance for PCB bare board (based on IPC 6012 and 600)	2					•				•			



INFORMATION & COMMUNICATION TECHNOLOGY COURSES

No	Training Programs 2024	Days	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
INFORMATION & COMMUNICATION TECHNOLOGY														
1	VBA Excel Automating Task	2		•									•	
2	Microsoft Office (Word, Excel, PowerPoint) - Basic Level	1	•		•		•		•		•		•	
3	Microsoft Office (Word, Excel, PowerPoint) - Intermediate Level	1		•			•			•				
4	Microsoft Office (Word, Excel, PowerPoint) - Advance Level	1	•		•			•			•			•
5	Project Management	3					•						•	
6	Power BI	2								•				

Other courses upon request or customization:

- Powerful Presentation (With Ms Powerpoint)
- SQL Database
- Digital Citizenship (Digital Literacy)

AVIATION COURSES

- Aviation Communication And Technical Report Writing
- Technical English For Aerospace Personnel
- Aviation Work Culture / Standard Practices
- Electrical Wiring Interconnection System
- Safety Management Systems
- Human Factors
- Aviation Legislation
- Aviation Security
- Dangerous Good Awareness

WORKFORCE DEVELOPMENT COURSES

Competency Based Training Series For Manufacturing

- Operators Development
- Technician / Sr Tech Development
- Supervisory Development
- Engineer Development
- MSF 4.0 Competent Personnel
- Operator Technician (Diploma Program)
- Technician To Engineer (Degree Or German Meister Program)

Aviation Apprenticeship

- MRO Mechanic / Technician / Specialist
- Aircraft Sheet Metal Repair
- Aircraft Ground Handling

Others

- Structured Engineer Development
- Structured Internship Program
- New Hire Onboarding Program



WHY SHRDC?

01

32 years of unrivalled expertise



02

Internationally Industry recognized certifications



03

Industry partners and workplace focused programs



04

Emerging trends aligning to government initiatives - Industry 4.0



05

Adoption of innovative technology and learning methodologies



06

Competency Based Training



CONTACT US



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